

Figure 1A
(Prior Art)

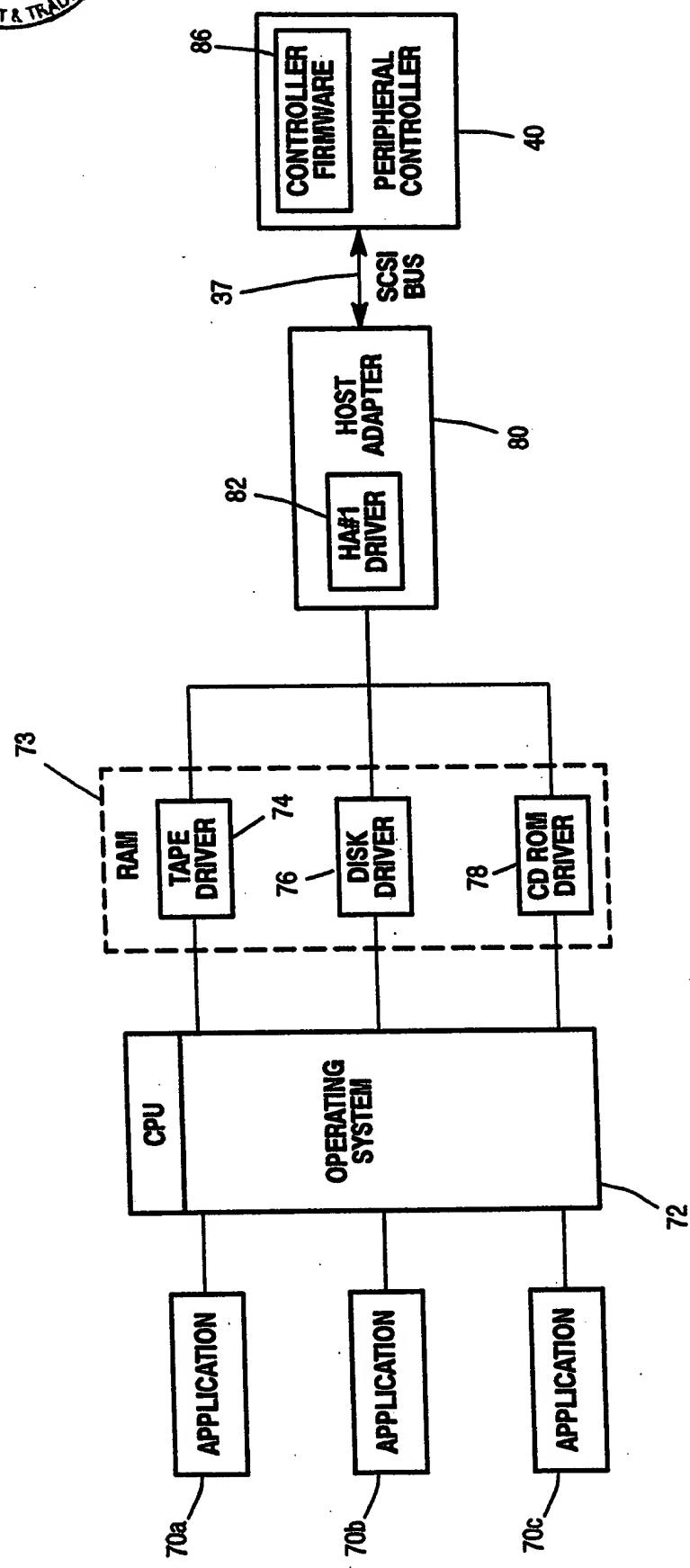


Figure 1B
(Prior Art)

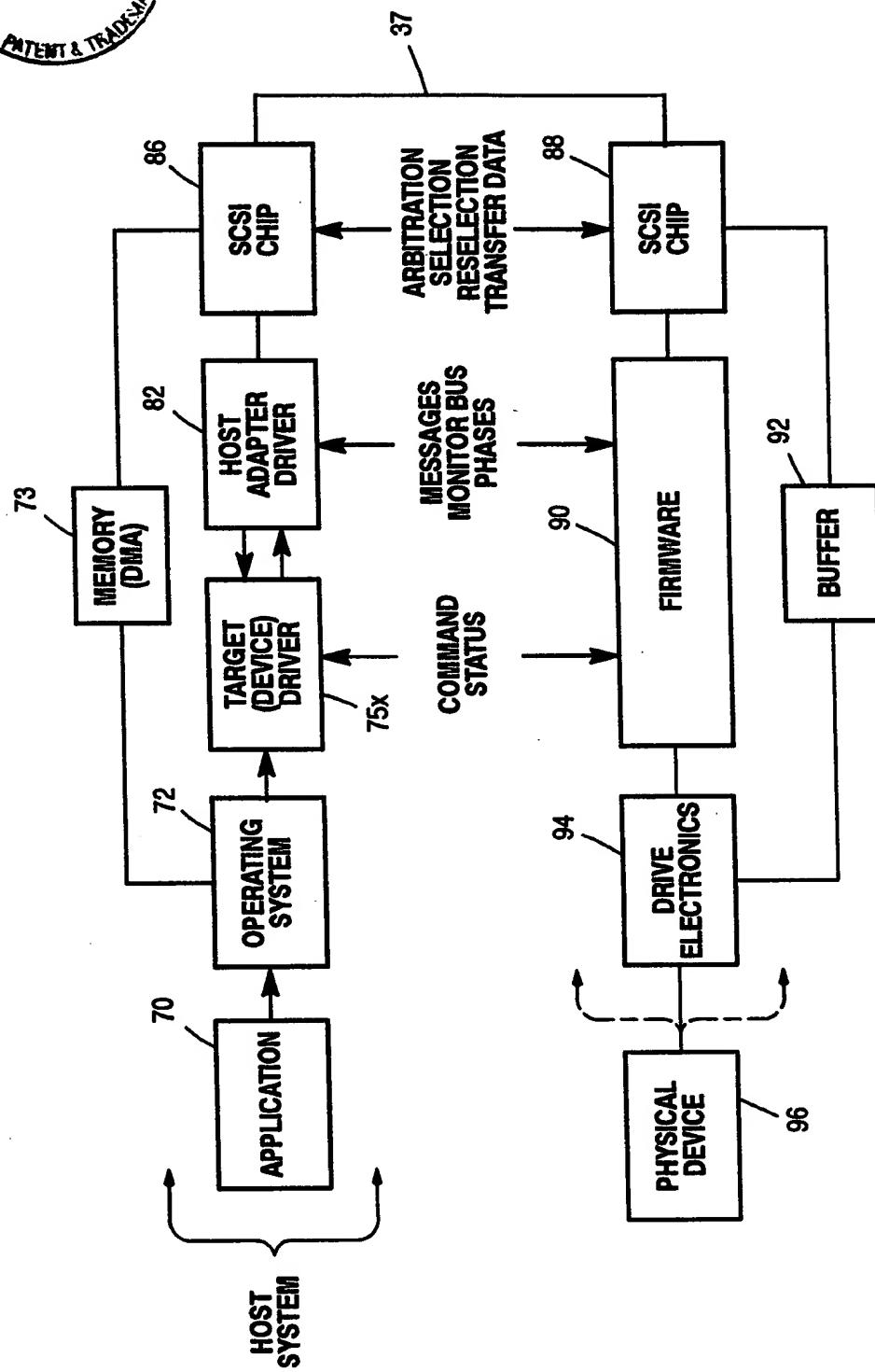


Figure 1C
(Prior Art)

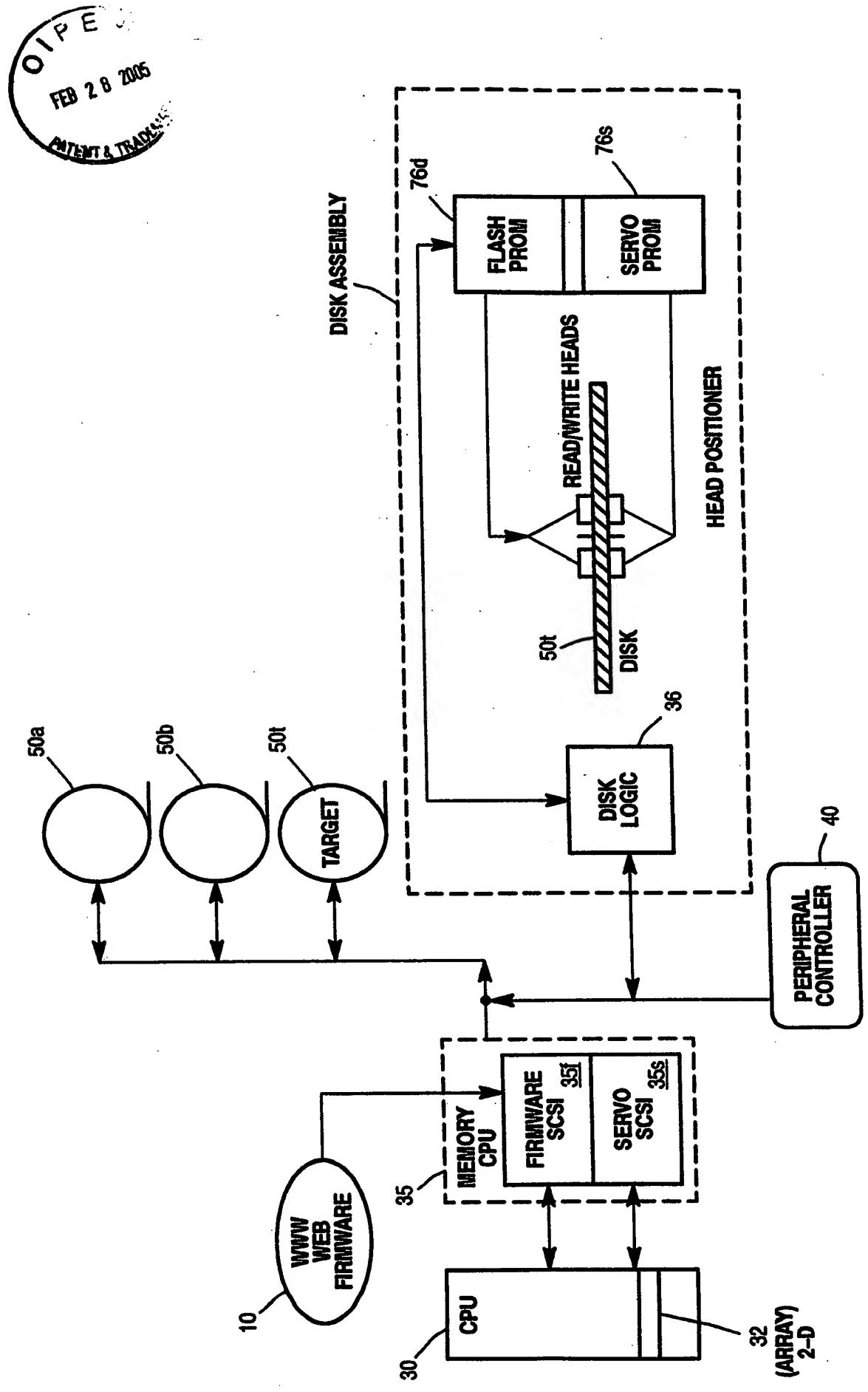


Figure 1D
(Prior Art)



TYPICAL TWELVE-BYTE CDB
(TABLE 23)

	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0								OPERATION CODE
BYTE 1	LOGICAL UNIT NUMBER							RESERVED
BYTE 2 (MSB)								LBA = LOGICAL BLOCK ADDRESS (IF REQUIRED)
BYTE 3								
BYTE 4								
BYTE 5								
BYTE 6 (MSB)								TRANSFER LENGTH (IF REQUIRED)
BYTE 7								PARAMETER LIST LENGTH (IF REQUIRED)
BYTE 8								ALLOCATION LENGTH (IF REQUIRED)
BYTE 9								
BYTE 10								RESERVED
BYTE 11								CONTROL BYTE

Figure 2
(Prior Art)



WRITE BUFFER COMMAND

BIT BYTE	7	6	5	4	3	2	1	0
0	OPERATION CODE (3Bh)							
1	RESERVED							
2	BUFFER ID							
3 (MSB)	BUFFER OFFSET							
4	(LSB)							
5								
6 (MSB)	PARAMETER LIST LENGTH							
7	(LSB)							
8	CONTROL							
9								

Figure 3
(Prior Art)



WRITE BUFFER MODE FIELD

MODE	DESCRIPTION	IMPLEMENTATION REQUIREMENTS
000b	WRITE COMBINED HEADER AND DATA VENDOR-SPECIFIC	OPTIONAL
001b	WRITE DATA	VENDOR-SPECIFIC
010b	RESERVED	OPTIONAL
011b	DOWNLOAD MICROCODE	RESERVED
100b	DOWNLOAD MICROCODE AND SAVE	OPTIONAL
101b	DOWNLOAD MICROCODE WITH OFFSETS	OPTIONAL
110b	DOWNLOAD MICROCODE WITH OFFSETS AND SAVE	OPTIONAL
111b		OPTIONAL

Figure 4
(Prior Art)



OPERATION CODE

BITS	7	6	5	4	3	2	1	0
BYTE 0	GROUP CODE							
	COMMAND CODE							

GROUP CODE FIELD

GROUP	BIT 7	BIT 6	BIT 5	NUMBER OF COMMAND BYTES
0	0	0	0	SIX
1	0	0	1	TEN
2	0	1	0	TEN (NEW IN SCSI-2)
3	0	1	1	RESERVED
4	1	0	0	RESERVED
5	1	0	1	TWELVE
6	1	1	0	VENDOR SPECIFIC
7	1	1	1	VENDOR SPECIFIC

Figure 5
(Prior Art)

REPLACEMENT SHEET
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TWO DIMENSIONAL ARRAY (MATRIX)

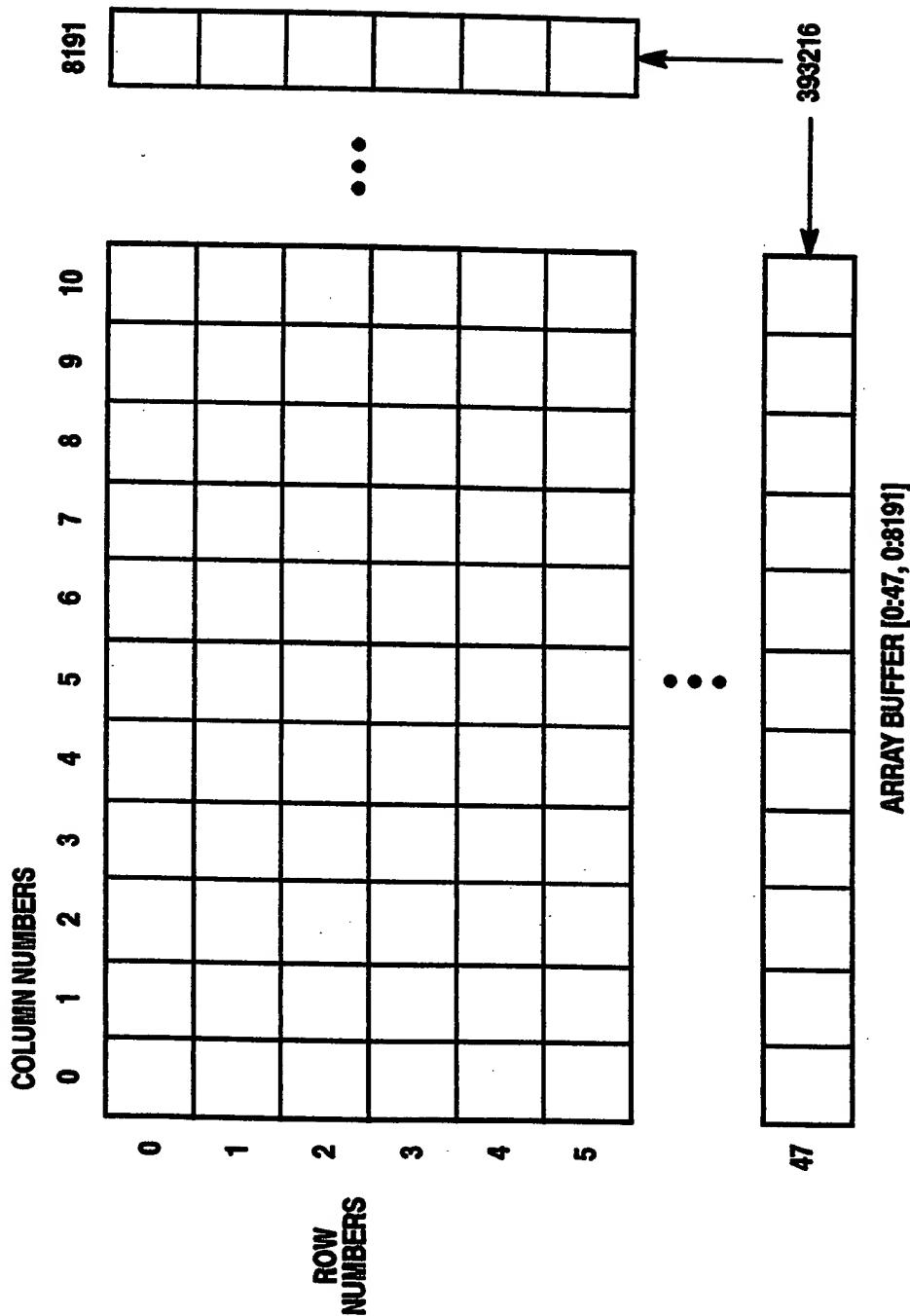


Figure 6



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DFAST

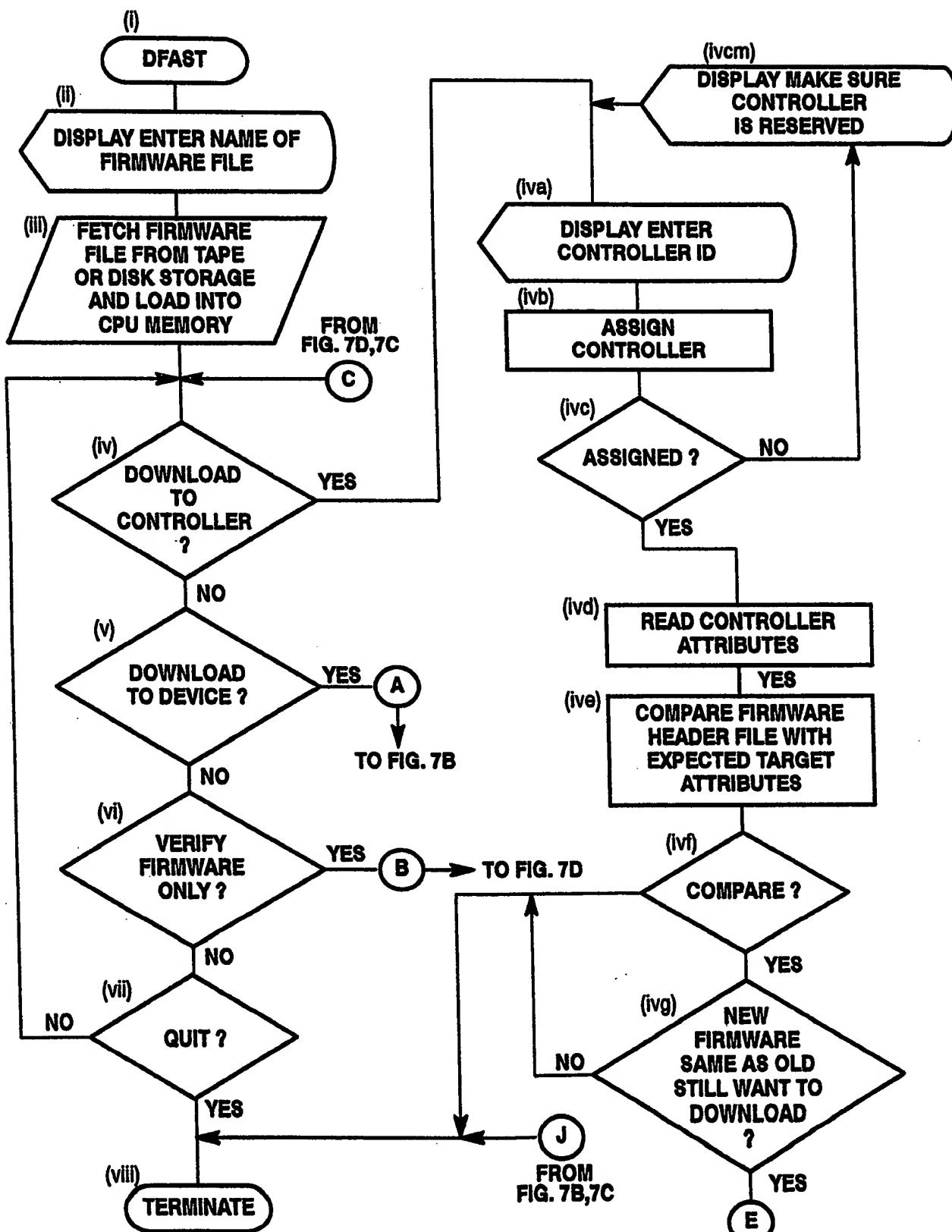


Figure 7A

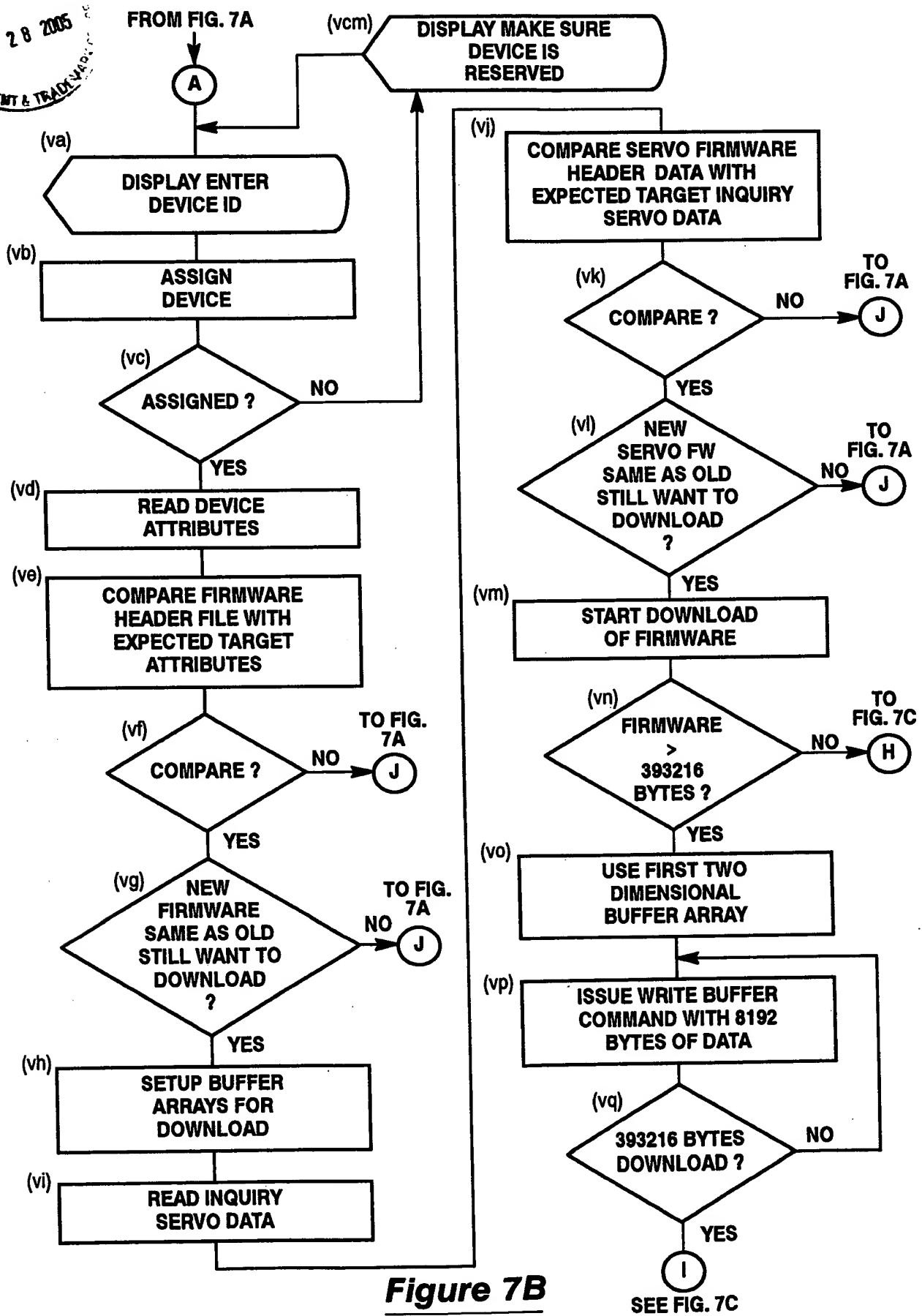


Figure 7B

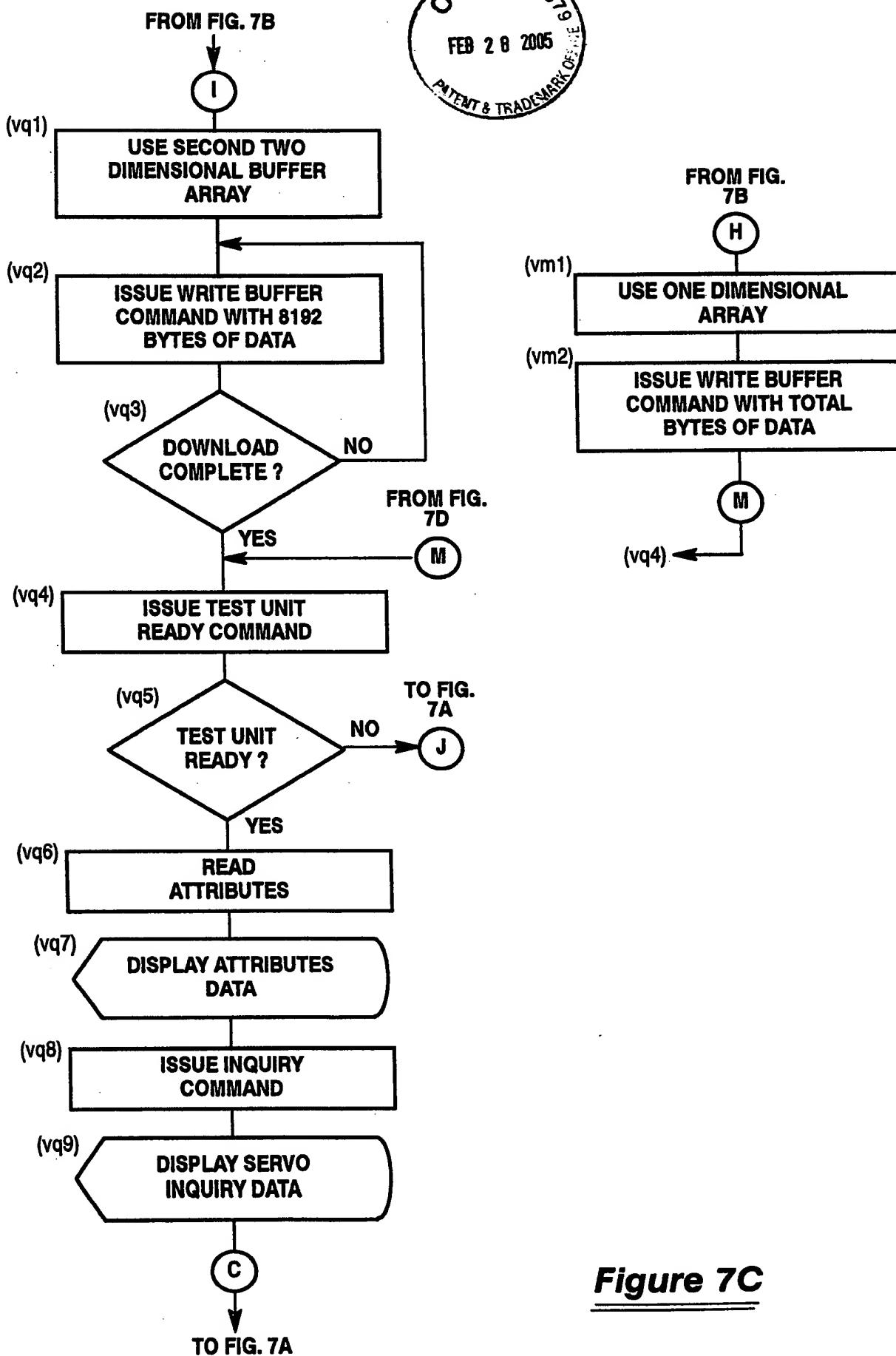


Figure 7C

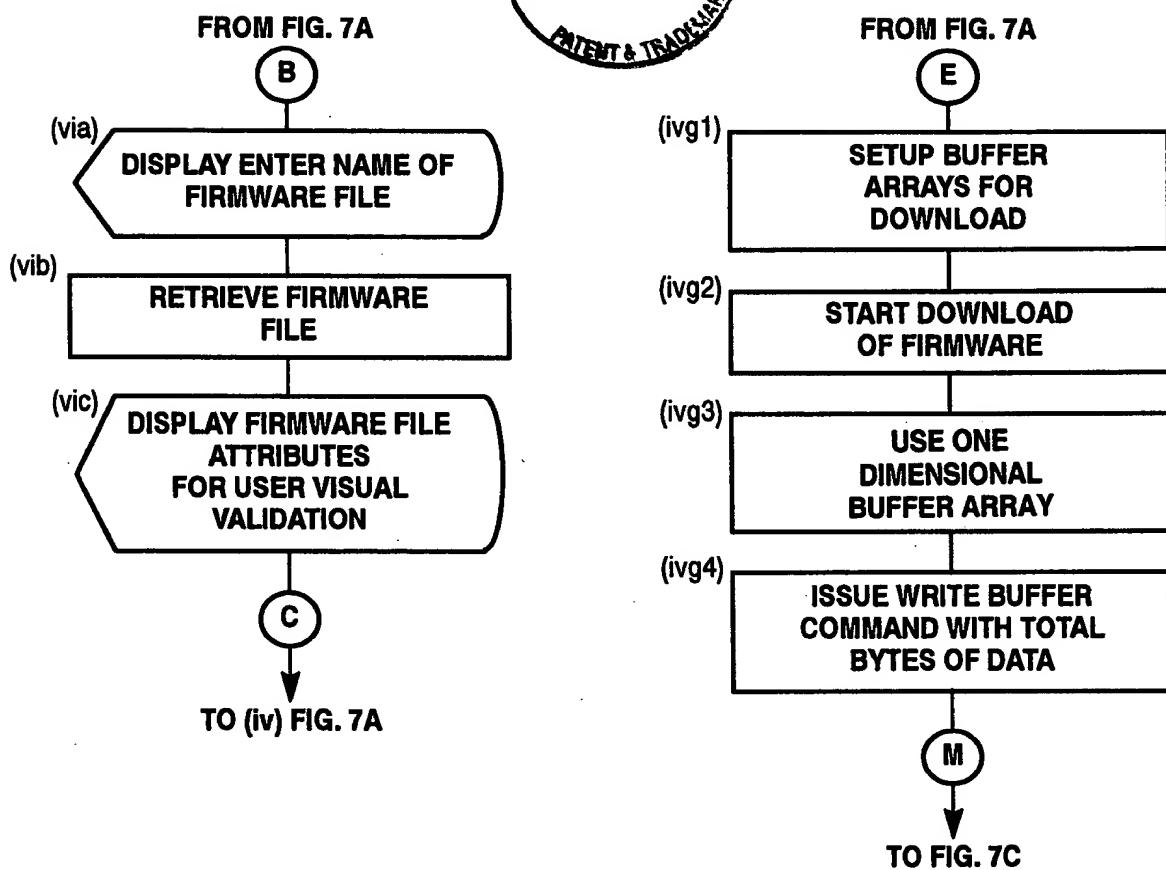


Figure 7D